

## ABSTRACT OF THE DISCLOSURE

A microarray disc characterized in that a substrate is provided with a pregroove and a thin film with an excellent  
5 adherence to a probe DNA or protein is disposed at least on the pregroove, and that a liquid drop containing the probe DNA or protein is arranged on a convex part or concave part of the pregroove so that the liquid drop expands in the tangential direction of the pregroove due to the surface  
10 tension of the liquid drop and/or in the instance of concave part, due to the restriction by the concave groove wall with any expansion in the direction perpendicular to the groove, and that in the above condition, the probe DNA or protein is immobilized on the substrate.